

CLAIMS

1. Pharmaceutical composition intended to adhere to a mucous membrane in particular for the prevention and treatment of radiomucositis, and of chemomucositis
5 induced by radiotherapy and combined radiochemotherapy, comprising an effective quantity of a compound having anti-free radical activity in the form of a mixture with a vehicle which is liquid at room temperature and which gels at the temperature of the mucous membrane
10 and which is capable of adhering to the mucous membrane because of its gelled state.
2. Composition according to Claim 1 whose vehicle is an aqueous vehicle and comprises a mixture of 0.05 to 5% (preferably 0.1 to 3%) by weight of an agent
15 conferring viscosity and of 1 to 20% (preferably 5 to 20%) by weight of an agent modifying the viscosity according to the temperature.
3. Composition according to Claim 2, in which the agent modifying the viscosity according to the
20 temperature is chosen from poloxamers, poloxamines, and divinylbenzenesorbitol compounds.
4. Composition according to any one of the preceding claims, in which the anti-free radical compound is chosen from flavonoids, isoflavonoids, tocopherols,
25 polyphenols and plant extracts containing polyphenols, vitamins (vitamins of group B in particular) and the active fractions of vegetable oils.
5. Composition according to Claim 4, in which the flavonoid is chosen from rutoside, diosmin, quercitrin,
30 tangeretin and hesperidin.
6. Composition according to Claim 4, in which the isoflavonoid is genistin, daidzin or glycitin.
7. Composition in solid form and forming a composition according to any one of Claims 1 to 6 by
35 mixing with water.
8. Use of a compound having anti-free radical activity in the form of a mixture with a vehicle which is liquid at room temperature and which gels at the temperature of a mucous membrane and which is capable

of adhering to this 'mucous' membrane because of its gelled consistency, for the manufacture of a pharmaceutical composition intended for the prevention and for the treatment of radiomucositis and of chemomucositis.

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9. Method for the prevention and treatment of radiomucositis and of chemomucositis induced by radiotherapy and combined radiochemotherapy, comprising the administration of a composition according to Claim
- 10 1.
10. Method according to Claim 9 for the prevention and treatment of gingival and oropharyngeal radio mucositis.
11. Method according to Claim 9 for the prevention and
- 15 treatment of anorectal radiomucositis.
12. Method according to Claim 9 for the prevention and treatment of vaginal radiomucositis.

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